



Please type a plus sign (+) inside this box



PTO/SB/08B (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449B/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet

1

of

4

Complete if Known

Application Number	09/557,382
Filing Date	April 25, 2000
First Named Inventor	TROSIEN, ANDREW
Group Art Unit	2788 3626
Examiner Name	Unassigned V. FRENEL
Attorney Docket Number	018563-003600US

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
VF	AA	3,660,900		Andrews	5/1972	
VF	AB	3,860,803		Levine	1/1975	
VF	AC	4,504,225		Yoshii	3/1985	
VF	AD	4,505,673		Yoshii	3/1985	
VF	AE	4,755,139		Abbatte et al.	7/1988	
VF	AF	4,793,803		Martz	12/27/1988	
VF	AG	4,798,534		Breads	1/1989	
VF	AH	4,856,991		Breads et al.	8/1989	
VF	AI	4,936,862		Walker et al.	6/1990	
VF	AJ	5,011,405		Lemchen	4/1991	
VF	AK	5,017,133		Miura	5/1991	
VF	AL	5,035,613		Breads et al.	7/1991	
VF	AM	5,055,039		Abbatte et al.	10/1991	
VF	AN	5,059,118		Breads et al.	10/1991	
VF	AO	5,139,419		Andreiko et al.	8/1992	
VF	AP	5,186,623		Breads et al.	2/1993	
VF	AQ	5,273,429		Rekow	12/1993	
VF	AR	5,338,198		Wu et al.	8/1994	
VF	AS	5,340,309		Robertson	8/1994	
VF	AT	5,342,202		Deshayes	8/1994	
VF	AU	5,368,478		Andreiko et al.	11/1994	
VF	AV	5,382,164		Stern	1/1995	
VF	AW	5,395,238		Andreiko et al.	3/1995	
VF	AX	5,431,562		Andreiko et al.	7/1995	
VF	AY	5,447,432		Andreiko et al.	9/1995	
VF	AZ	5,452,219		Dehoff et al.	9/1995	
VF	BA	5,454,717		Andreiko et al.	10/1995	
VF	BB	5,456,600		Andreiko et al.	10/1995	
VF	BC	5,474,448		Andreiko et al.	12/1995	
VF	BD	5,528,735		Strasnick et al.	6/1996	
VF	BE	5,533,895		Andreiko et al.	7/1996	
VF	BF	5,542,842		Andreiko et al.	8/1996	
VF	BG	5,549,476		Stern	8/1996	
VF	BH	5,587,912		Andersson et al.	12/1996	
VF	BI	5,605,459		Kuroda et al.	2/1997	

Examiner
Signature

Vanel Frenel

Date
Considered

10/18/02

¹ EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.² Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

PA 3216718 v1

Office of
MAY 20 2002
PATENT & TRADEMARK OFFICE

Please type a plus sign (+) inside this box



PTO/SB/08B (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449B/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 2 of 4

Complete if Known

Application Number 09/557,382
Filing Date April 25, 2000
First Named Inventor TROSIEN, ANDREW
Group Art Unit 2700-3626
Examiner Name Unassigned
Attorney Docket Number 018563-003600US

MAY 22 2002

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
VF	BJ	5,607,305		Andersson et al.	3/1997	
VF	BK	5,645,421		Slootsky	7/1997	
VF	BL	6,217,334		Hultgren	04/17/2001	

FOREIGN PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ²
		Office ³	Number ⁴	Kind Code ⁵ (if known)				
VF	BM	FR	2 369,828			6/1978		
VF	BN	WO	WO94/10935			5/1994		
VF	BO	PCT	WO98/32394		Hultgren	07/30/1998		

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
VF	BP	Biostar Operation & Training Manual, Great Lakes Orthodontics, Ltd. 199 Fire Tower Drive, Tonawanda, New York, 14150-5890.	
VF	BQ	CHIAPPONE, "Constructing the gnathologic setup and positioner," <i>J. Clin. Orthod.</i> , 1980, 14:121-133.	
VF	BR	COTTINGHAM, "Gnathologic clear plastic positioner," <i>Am. J. Orthod.</i> , 1969, 55:23-31.	
VF	BS	CURETON, "Correcting malaligned mandibular incisors with removable retainers," <i>J. Clin. Orthod.</i> 1996, 30:390-395.	
VF	BT	DOYLE, "Digital Dentistry" <i>Computer Graphics World</i> (October 2000) pp. 50-52, 54.	
VF	BU	ELSASSER, "Some observations on the history and uses of the Kesling positioner," <i>Am. J. Orthod.</i> 1950, 36:368-374.	
VF	BV	KAMADA et al., "Case reports on tooth positioners with LTV vinyl silicone rubber and some case reports," <i>J. Nihon University School of Dentistry</i> 1982, 24(1): 1-27.	
VF	BW	KESLING, "The philosophy of the tooth positioning appliance," <i>Am. J. Orthod. Oral. Surg.</i> 1945, 31(6):297-304.	

Examiner
Signature

Panel Frenel

Date
Considered

10/18/02

¹ EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

² Unique citation designation number. ³ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231. PA 3216718 v1

Technology Center 2100

RECEIVED
MAY 29 2002

GROUP 36001

OIP E JC12
MAY 20 2002
PATENT & TRADEMARK OFFICE

Please type a plus sign (+) inside this box



PTO/SB/08B (08-00)

Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449B/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 3 of 4

Complete if Known

Application Number 09/557,382
Filing Date April 25, 2000
First Named Inventor TROSIEN, ANDREW
Group Art Unit ~~2786~~ 3626
Examiner Name ~~Unassigned~~ V. FRIEDEL
Attorney Docket Number 018563-003600US

MAY 29 2002

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Technology Center 2100

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
VF	BX	KESLING, "Coordinating the predetermined pattern and tooth positioner with conventional treatment," <i>Am. J. Orthod. Oral. Surg.</i> 1946, 32:285-293.	
VF	BY	KLEEMAN et al., "The speed positioner," <i>J. Clin. Orthod.</i> 1996, 30:673-680.	
VF	BZ	KURODA et al., "Three-dimensional dental cast analyzing system using laser scanning," <i>Am. J. Orthod. Dentofac. Orthop.</i> 1996, 110:365-369.	
VF	CA	NISHIYAMA et al., "A new construction of tooth repositioner by LTV vinyl silicon rubber," <i>J. Nihon Univ. School of Dentistry</i> 1977, 19(2):93-102.	
VF	CB	Nippon Dental Review, "New orthodontic device-dynamic positioner (D.P.)-I Approach to the proposal of D.P. and transparent silicone rubber," 1980, 452:61-74.	
VF	CC	Nippon Dental Review, "New orthodontic device-dynamic positioner (D.P.)-II, Practice application and construction of D.P. and transparent silicone rubber," 1980, 454:107-130.	
VF	CD	Nippon Dental Review, "New orthodontic device-dynamic positioner (D.P.)-III, Case reports of reversed occlusion," 457:146-164.	
VF	CE	Nippon Dental Review, "New orthodontic device-dynamic positioner (D.P.)-Case reports of reversed occlusion," 1980, 458:112-129.	
VF	CF	Raintree Essix & ARS Materials, Inc., Raintree Essix, Technical Magazine Table of contents and Essix Appliances, http://www.essix.com/magazine/default.html Aug. 13, 1997, 7 pages.	
VF	CG	REDMOND et al., "Clinical Implications of Digital Orthodontics" <i>Am. J. Orthodont. Dentofacial Orthopedics</i> (2000) 117(2):240-242.	
VF	CH	SHILLIDAY, "Minimizing finishing problems with the mini-positioner," <i>Am. J. Orthod.</i> 1971, 59:596-599.	
VF	CI	WARUNEK et al., "Physical and mechanical properties of elastomers in orthodontic positioners," <i>Am. J. Orthod. Dentofac. Orthop.</i> 1989, 95:388-400.	
VF	CJ	WELLS, "Application of the positioner appliance in orthodontic treatment," <i>Am. J. Orthodont.</i> 1970, 58:351-366.	
VF	CK	LAWRENCE F. ANDREWS, D.D.S., "The six to normal occlusion," <i>Am. J. Orthodont. Sep.</i> 1972, 296,308.	
VF	CL	LAWRENCE F. ANDREWS, D.D.S., "Straight Wire, The Concept and Appliance," <i>The Six Keys to Optimal Occlusion</i> , 15-24.	

RECEIVED
MAY 29 2002
GROUP 3600

Examiner Signature

Panel Friezel

Date Considered

10/18/02

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.
PA 3216718 v1

U.S. PATENT & TRADEMARK OFFICE
MAY 20 2002

Please type a plus sign (+) inside this box ☐

PTO/SB/08B (08-00)

Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449B/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 4 of 4

Complete if Known

Application Number	09/557,382
Filing Date	April 25, 2000
First Named Inventor	TROSIEN, ANDREW
Group Art Unit	2786-3626
Examiner Name	Unassigned
Attorney Docket Number	018563-003600US

MAY 22 2002

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Technology Center 2100

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
V.F	CM	KAMADA et al., "Construction of Tooth Positioners with LTV Vinyl Silicone Rubber and Some Case Reports," J. Nihon Univ. School of Dentistry, Mar. 1982, 24(1):1-26.	
V.F	CN	SCHROEDER et al., "Algorithms I," The Visualization Toolkit chapter 6-9.9, 1996.	
V.F	CO	PROFFIT et al., "The First Stage of Comprehensive Treatment: Alignment and Leveling," Contemporary Orthodontics, Chapter 15, 470-533.	
V.F	CP	WARUNEK et al., "Clinical Use of Silicone Elastomer Appliances," JCO Oct. 1989, 694-700.	

PA 3216718 v1

RECEIVED

MAY 29 2002

GROUP 3000

Examiner Signature	<i>Panel Frenel</i>	Date Considered	10/18/02
--------------------	---------------------	-----------------	----------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.
PA 3216718 v1